Use Case "Place order"

1. Use case code
UC002

2. Brief Description
This use case describes the interaction between customers and AIMS software when the customer wishes to place order.

3. Actors
3.1   Customer

4. Preconditions
The cart has product(s).

5. Basic Flow of Events
5.1   The customer request to place order in the view cart screen

5.2   The AIMS software checks the availability of products in the cart (Table C)

5.3   The AIMS software displays the form of delivery information

5.4   The customer enters and submits delivery information (Table A)

5.5   The AIMS software checks the validity of delivery information

5.6   The AIMS software checks that the customer chose Place rush order or not

5.7   The AIMS software calculates shipping fees

5.8   The AIMS software displays the invoice (Table B)

5.9   The customer confirms to place order

5.10   The AIMS software calls UC "Pay order"

5.11   The AIMS software saves order

5.12   The AIMS software makes the cart empty

5.13   The AIMS software displays the successful order notification.

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No	Location	Condition	Alternative flow	Resume location
1.	At Step 5.2	If there is media of which quantity in the stock is less	▪ The AIMS software asks the customer to update the cart	Resumes at Step 5.2

		than the ordered quantity	▪ The customer updates the cart	
2.	At Step 5.5	If a mandatory field is left blank	▪ The AIMS software asks the customer to fill all the mandatory blank	Resumes at Step 5.3
3.	At Step 5.5	If the phone number is invalid	▪ The AIMS software asks the customer to enter a valid phone number	Resumes at Step 5.3
4.	At Step 5.7	If the customer chooses Place rush order	▪ The AIMS software calls UC "Place rush order"	Resumes at Step 5.7

7. Input data

Table A-Input data of delivery information

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Receiver Name		Yes		Tran Xuan Truong
2.	Phone Number		Yes		0971803568
3.	Province	Choose from a list	Yes		Hanoi
4.	Address		Yes		131, 12 Phan Dinh Giot, Thanh Xuan district
5.	Shipping instructions		No		

8. Output data

Table B-Output data of displaying invoice

No	Data fields	Description	Display format	Example
1.	Title	Title of a media product		DVD Harry Potter
2.	Price	Price of the corresponding media product	▪ Comma for thousands separator ▪ Positive integer ▪ Right alignment	123,000
3.	Quantity	Quantity of the corresponding media	▪ Positive integer ▪ Right alignment	2
4.	Amount	Total money of the corresponding media	▪ Comma for thousands separator ▪ Positive integer ▪ Right alignment	246,000
5.	Subtotal Before VAT	Total price of products in the cart before VAT		2,106,000
6.	Subtotal	Total price of products in the cart with VAT	▪ Comma for thousands separator ▪ Positive integer ▪ Right alignment	2,316,600
7.	Shipping fees			30,000
8.	Total	Sum of subtotal and shipping fees		2,346,600
9.	Currency			VND
10.	Name			Tran Xuan Truong
11.	Phone number			0971803568
12.	Province	Choose from a list		Hanoi

13.	Address			131, 12 Phan Dinh Giot, Thanh Xuan district
14.	Shipping instructions			

Table C-Output data of the cart

No	Data fields	Description	Display format	Example
1.	Title	Title of a media product		DVD Doraemon: Stand by me
2.	Price	Price of the corresponding media product	▪ Comma for thousands separator ▪ Positive integer Right alignment	100,000
3.	Quantity	Quantity of the corresponding media	▪ Positive integer ▪ Right alignment	2
4.	Amount	Total money of the corresponding media	▪ Comma for thousands separator ▪ Positive integer ▪ Right alignment	200,000
5.	Subtotal Before VAT	Total price of products in the cart before VAT	▪ Comma for thousands separator ▪ Positive integer ▪ Right alignment	2,106,000
6.	Subtotal	Total price of products in the cart with VAT		2,316,600
7.	Currency			VND

9. Postconditions

10. Activity diagram

act Activity Diagram Place order

Customer	AIMS Software

Customer:
- Request to place order in the view cart screen
- Enter and submit delivery information
- Confirm to place order

AIMS Software:
- Check the availability of products in the cart

[Quantity in the stock isn't enough]

- Display the form of delivery information
- Check the validity of delivery information

[A mandatory field is blank /Phone number is invalid]

- Check that customer chose Place rush order

[Customer chose Place rush order]

- Call UC "Place rush order"
- Calculate shipping fees
- Display the invoice
- Call UC "Pay order"
- Save order
- Make the cart empty
- Display the successful order notification